

Application No. 09/975,873  
Amendment dated June 14, 2004  
Reply to Office Action dated March 3, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously amended): A medical device delivery system for therapeutically treating a patient, comprising:  
an inner shaft, having proximal and distal ends;  
a tubular outer sheath, at least a portion of which surrounds a portion of the inner shaft member;  
a medical device within the outer sheath in an initial configuration;  
a handle affixed to the inner shaft and operatively coupled with the outer sheath;  
a first and second independently moveable actuator for adjusting the relative longitudinal positions of the inner shaft and the outer sheath, each of the first and second actuators providing a different amount of mechanical advantage between an input to one of the first and second actuators by a physician and a resulting relative longitudinal position of the inner shaft and the outer sheath respectively.

Claim 2 (original): The medical device delivery system of claim 1, wherein one of the first and second actuators provides a mechanical advantage of 1:1.

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**Claim 3 (original):** The medical device delivery system of claim 1, wherein the first actuator is adapted to rotate around a threaded base.

**Claim 4 (original):** The medical device delivery system of claim 1, wherein the second actuator is adapted to slide along a longitudinal slot defined by the handle.

**Claim 5 (original):** The medical device delivery system of claim 1, wherein one of the first and second actuators is formed as a lever.

**Claim 6 (original):** The medical device delivery system of claim 1, wherein the first actuator provides a mechanical advantage greater than 1:1, to facilitate an operator to overcome initial resistance to changing the initial relative position of the inner shaft and the outer sheath.

**Claim 7 (original):** The medical device delivery system of claim 1, wherein the handle and the first and second actuators can be operated by one hand.

**Claim 8 (previously amended):** A handle for manipulating a medical device delivery system for therapeutically treating a patient, comprising:  
a housing;  
inner and outer shaft members;  
the inner shaft member being affixed to the housing;  
the outer shaft member being movably coupled to the inner shaft member, such that the outer shaft member can be moved longitudinally with respect to the inner shaft member;

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first and second independent means for selectively moving the outer shaft member with respect to the inner shaft member;

the first means being adapted for precise and sensitive adjustment of the position of the outer shaft member, and the second means being adapted for rapid and relatively large-scale movement of the outer shaft member.

Claim 9 (previously added): The medical device delivery system of claim 1, further comprising a limit element limiting the extent of travel for the second actuator.

Claim 10 (previously added): The medical device delivery system of claim 9, wherein the limit element resists relative rotation between the inner shaft member and the tubular outer sheath.

Claim 11 (previously amended): A medical device delivery system for therapeutically treating a patient, comprising:  
an inner shaft, having proximal and distal ends;  
a tubular outer sheath, at least a portion of which surrounds a portion of the inner shaft member;  
a medical device within the outer sheath in an initial configuration;  
a handle affixed to the inner shaft and operatively coupled with the outer sheath;

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a first and second independently moveable actuator for adjusting the relative longitudinal positions of the inner shaft and the outer sheath, each of the first and second actuators providing a different amount of mechanical advantage between an input to one of the first and second actuators by a physician and a resulting relative longitudinal position of the inner shaft and the outer sheath respectively;

a limit element limiting the extent of travel for the second actuator, wherein the limit element resists relative rotation between the inner shaft member and the tubular outer sheath.